

## Sintered Products

### Outline

## Micron-hard wire

### Category and Properties and Applications

| Category                           | Grade   | Properties   | Hardness (HV) | Deflective Strength (Gpa) | Applications   |
|------------------------------------|---------|--|---------------|---------------------------|--|
| P/M High Speed Steel               | FAX40D  | Standard type<br>High toughness<br>Good wear resistance              | 900           | 4.5                       | Dot printer pins<br>Probe pins   |
|                                    | FAX40SS | High Vanadium type<br>High wear resistance                           | 950           | 4.5                       | Dot printer pins<br>Wear resistant machine parts                                     |
| Super Micro Grain Tungsten Carbide | HF13T   | High strength type<br>High wear resistance<br>High buckling strength | 1850          | 4.0                       | Pins and punches for precision mold  |
|                                    | HF14T   | Standard type<br>Good wear resistance<br>Good toughness              | 1600          | 4.3                       | Pins and punches for precision mold<br>Fine blanking punches for ceramic green sheet |
|                                    | HF15T   | High toughness type  | 1250          | 4.5                       | Dot printer pins   |

### Shape and Dimensions

| Shape    | Nominal Diameter                          |
|----------|---|
| Straight | ø0.07~0.6                                 |
| Tapered  | Tip dia. 0.07 & up<br>Shaft dia. 0.20~0.6 |
| Stepped  |   |

High precision tolerance ( $\pm 1 \mu\text{m}$ , etc.) and special shape is available on request.



Micron-hard (Ultra fine wire)

## Cermet Inserts

### Grades and Properties of NAX Series

| Cermet Grade | Hardness (HRA) | Deflective strength (GPa) | Properties      |                   |                          | Applications |         |          | Related Carbide Grade |
|--------------|----------------|---------------------------|-----------------|-------------------|--------------------------|--------------|---------|----------|-----------------------|
|              |                |                           | Wear resistance | Impact Resistance | Thermal Shock Resistance | Turning      | Milling | Chip Saw |                       |
| NAX T        | 92.5           | 1.5                       | ■               | ■                 | ■                        | ■            |         |          | P10                   |
| NAX M        | 92.0           | 1.6                       | ■               | ■                 | ■                        | ■            |         |          |                       |
| NAX V        | 92.5           | 1.6                       | ■               | ■                 | ■                        | ■            | ■       | ■        | P15                   |
| NAXEE        | 91.5           | 1.8                       | ■               | ■                 | ■                        |              | ■       | ■        | P20                   |
| NAXLL        | 92.5           | 2.0                       | ■               | ■                 | ■                        |              | ■       | ■        | P25                   |
| NAXSS        | 92.0           | 2.0                       | ■               | ■                 | ■                        |              | ■       | ■        |                       |